

To: Kelly Campen

09/404269

PHP? /KNX 5D49 AU 3691

STIC
SECRET

[Home](#) > [Online Database Search Form](#) :

Database Search Request Confirmation

Thank you, KELLY CAMPEN. Your request (shown below) has been successfully sent to the STIC staff and a confirmation email was also sent to your own email address at ~~kelly.campen@uspto.gov~~.

Your name: KELLY CAMPEN

~~Email address: KELLY.CAMPEN@USPTO.GOV~~

~~Employee number: 25018~~

Art Unit: GROUP ART UNIT 3691

~~Office location: KRM 08D 49~~

~~Phone number: (571) 272-1300~~

Mailbox Number:

Case serial number: 09/404269

Class / Subclass(es): 705/003

Earliest Priority Filing Date: 10/15/1999

Format preferred for results: E-mail

Search Topic Information:

a method for submitting cardiovascular data analyzing a waveform of the cardiovascular signal to determine either the shape of the signal, a slope of the signal and an area under the signal and during the startup routine of the computer, a portion of the detected cardiovascular signal of the user is received and transmitting the data based on the received signal to a central database for storage in a record, associating limits with the data and then notifying the physician to contact the user when the limits are exceeded by the data. abstract: A method and system for providing online health monitoring and accumulating data from patients worldwide, wherein a database for storing a plurality of health statuses of a plurality of users is established, wherein the database is centrally-accessible from the Internet; data corresponding to a health statistic of a user is received from the user, the data being generated by a health monitoring device; the health statistic is analyzed to determine a health status from the health statistic; the health status is stored in the database; and a population statistic is updated based on the health status and the plurality of health statuses. Such monitoring is particularly useful for both diagnosing and prescribing preventive medical treatment, and is particularly suited for the field of cardiovascular health care. relevant claim: 25. (Previously Presented) A method, performed by a computer-controlled apparatus, for submitting acoustical cardiovascular data to a central database, the method comprising: receiving, from a user, a request to detect a cardiovascular signal of the user; initializing a cardiovascular monitoring device connected to a computer in response to the request; measuring an acoustical cardiovascular signal with the cardiovascular monitoring device while a startup routine performed by the computer is ongoing; analyzing a waveform of the cardiovascular signal to determine at least one of a shape of the signal, a slope of the signal, and an area under the signal; and receiving, at the computer after the startup routine, at least a portion of the detected cardiovascular signal of the user; transmitting data based on the received cardiovascular signal to a central database for storage in a record corresponding to the user; associating limits with the data based on the received cardiovascular signal; and notifying a user's physician, with a message sent from the computer, to contact the user when the limits are exceeded by the data.

Special Instructions and Other Comments:

~~I have already submitted this search on 2009 but the STIC~~

[Click here to Make Another Request.](#)

Submit questions, comments and suggestions to [Kristin Vajs](#)

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Gale Group Trade & Industry DB

(c)2007 The Gale Group. All rights reserved.

11238543 **Supplier Number:** 55347601 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Hypertension Diagnostics Announces Agreement With MedWave Marketing.

PR Newswire , 5655

August 4 , 1999

Language: English

Record Type: Fulltext

Word Count: 610 **Line Count:** 00056

...in the agreement."

Founded in 1988, Hypertension Diagnostics is focused on the development of proprietary **cardiovascular** profiling technology that analyzes arterial pulse pressure **waveform** data. HDI has developed two models of its HDI/PulseWave CardioVascular Profiling Instrument. HDI's

...

w files

[File 15] **ABI/Inform(R)** 1971-2007/Apr 05

(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 9] **Business & Industry(R)** Jul/1994-2007/Apr 04

(c) 2007 The Gale Group. All rights reserved.

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Apr 03

(c) 2007 The Gale Group. All rights reserved.

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Apr 04

(c) 2007 The Gale Group. All rights reserved.

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Apr 04

(c) 2007 The Gale Group. All rights reserved.

[File 16] **Gale Group PROMT(R)** 1990-2007/Apr 04

(c) 2007 The Gale Group. All rights reserved.

[File 160] **Gale Group PROMT(R)** 1972-1989

(c) 1999 The Gale Group. All rights reserved.

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Mar 27

(c)2007 The Gale Group. All rights reserved.


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; d s
Set      Items      Description
S1       2011248     ACOUSTICAL OR AUDIO OR SOUND FROM 15, 9, 275, 621, 636, 16, 160, 148
S2       1415766     SHAPE OR CHARACTERISTICS OR SLOPE OR PATTERN FROM 15, 9, 275, 621, 636,
16, 160, 148
S3       33381       WAVEFORM? FROM 15, 9, 275, 621, 636, 16, 160, 148
S4       215439      HEARTBEAT? OR HEART()BEAT? OR CARDIOVASCULAR? FROM 15, 9, 275, 621, 636,
16, 160, 148
S5       1331        CARDIO()GRAPH? OR CARDIOGRAPH? FROM 15, 9, 275, 621, 636, 16, 160, 148
S6       2091273     DATABANK? ? OR DATABASE? ? OR DATA() (BANK? ? OR BASE? ?) FROM 15, 9, 275,
621, 636, 16, 160, 148
S7       1280995     PATIENT? ? FROM 15, 9, 275, 621, 636, 16, 160, 148
S8       2343539     MONITOR? OR SENSOR? FROM 15, 9, 275, 621, 636, 16, 160, 148
S9       2171083     SUBMIT? OR TRANSMIT? OR INPUT? FROM 15, 9, 275, 621, 636, 16, 160, 148
S10      1832        (NOTIFY? OR NOTIFICATION? OR MESSAGE? OR EMAIL) (3N) (DOCTOR OR PHYSICIAN)
FROM 15, 9, 275, 621, 636, 16, 160, 148
S11      2529        S WAVE()FORM?
S12      81          S (S3 OR S11) (7N)S4
S13      7           S S12(2S)S6
S14      3           S S13 NOT PD=>19991015
S15      8304802     S PC OR LAPTOP? OR LAP()TOP? ? OR COMPUTER? ? OR PDA OR DIGITAL()ASSISTANT
S16      3139262     S DEVICE?
S17      7           S (S3 OR S11) (10N)S4(10N) (S6 OR S15)
S18      7           S S17 NOT S13
S19      4           S S18 NOT PD=>19991015

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? t 14/3,k/all

14/3,K/1 (Item 1 from file: 621) [Links](#)

Gale Group New Prod.Annou.(R)

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02138509 **Supplier Number: 55347601 (USE FORMAT 7 FOR FULLTEXT)**

Hypertension Diagnostics Announces Agreement With MedWave Marketing.

PR Newswire , p 5655

August 4 , 1999

Language: English Record Type: Fulltext

Document Type: Newswire ; Trade

Word Count: 569

...will be the primary focus of this consulting agreement. We look forward to developing the **data-based** evidence these strategic customers will need to position our unique technology package as a new...

...in the agreement."

Founded in 1988, Hypertension Diagnostics is focused on the development of proprietary **cardiovascular** profiling technology that analyzes arterial pulse pressure **waveform** data. HDI has developed two models of its HDI/PulseWave CardioVascular Profiling Instrument. HDI's ...

14/3,K/2 (Item 1 from file: 16) [Links](#)

Gale Group PROMT(R)

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06537160 **Supplier Number: 55347601 (USE FORMAT 7 FOR FULLTEXT)**

Hypertension Diagnostics Announces Agreement With MedWave Marketing.

PR Newswire , p 5655

August 4 , 1999

Language: English Record Type: Fulltext

Document Type: Newswire ; Trade

Word Count: 569

...will be the primary focus of this consulting agreement. We look forward to developing the **data-based** evidence these strategic customers will need to position our unique technology package as a new...

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Founded in 1988, Hypertension Diagnostics is focused on the development of proprietary **cardiovascular** profiling technology that

analyzes arterial pulse pressure **waveform** data. HDI has developed two models of its HDI/PulseWave CardioVascular Profiling Instrument. HDI's ...

14/3,K/3 (Item 1 from file: 148) [Links](#)

Gale Group Trade & Industry DB

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11238543 **Supplier Number: 55347601 (USE FORMAT 7 OR 9 FOR FULL TEXT)**

Hypertension Diagnostics Announces Agreement With MedWave Marketing.

PR Newswire , 5655

August 4 , 1999

Language: English

Record Type: Fulltext

Word Count: 610 **Line Count:** 00056

...in the agreement."

Founded in 1988, Hypertension Diagnostics is focused on the development of proprietary **cardiovascular** profiling technology that analyzes arterial pulse pressure **waveform** data. HDI has developed two models of its HDI/PulseWave CardioVascular Profiling Instrument. HDI's ...

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4 S S18 NOT PD=>19991015

? t 19/3,k/all

19/3,K/1 (Item 1 from file: 9) [Links](#)

Business & Industry(R)

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01737798 **Supplier Number: 24128482 (USE FORMAT 7 OR 9 FOR FULLTEXT)**

Patient Monitoring Systems - Cardiovascular Screening Opportunity

(For patient monitoring systems, cardiovascular screening provides an opportunity, as blood vessel diseases are the leading cause of death)

Medical & Healthcare Marketplace Guide , v 1 , p I-617+
1998

Document Type: Journal; Industry Overview (United States)

Language: English **Record Type:** Fulltext

Word Count: 1280 **(USE FORMAT 7 OR 9 FOR FULLTEXT)**

TEXT:

...proprietary instrument and procedures that painlessly and non-invasively collect thirty seconds of blood pressure **waveform** data, automatically analyze the data by means of an embedded **computer**, and generate a **CardioVascular** Profile Report. The system provides fourteen **cardiovascular** values, including artery elasticity indices. Clinical research suggests that the arterial elasticity indices can be...

...blood pressure and pulse rate that it then uses to indicate one of five general **cardiovascular** conditions.

- Pulse Metric uses proprietary non-invasive **waveform** technology with a variety of personal **computer** based products, but the equipment itself does not appear to determine arterial elasticity values.

- PWV...

19/3,K/2 (Item 1 from file: 621) **Links**

Gale Group New Prod. Annou.(R)

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01118671 **Supplier Number: 40903609 (USE FORMAT 7 FOR FULLTEXT)**

OUTPUT WAVEFORMS ACQUIRED FROM REAL-LIFE TRANSIENTS

News Release , p 1

August 16 , 1989

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; Trade

Word Count: 160

...square, triangle, ramp, pulse, or white noise waveforms.

Output any arbitrary waveform using the integrated PC compatible

controller. A built in **waveform** library includes: noise sinewave,

decaying sinewave, full rectified sinewave, AM swept, half AM modulation, and vibration **waveforms**

. Simulate: brainwave, pacemaker, **heartbeat**

, nerve response, switcher motor, solenoid, relay contact, disk drive, and material testing **waveforms**.

Product Highlights:

- * 12 bit analog to digital converter resolution
- * Integrated PC compatible controller
- * Output modes: continuous, sweep, burst
- * Trigger modes: internal, external, gated
- * 16,000 point...

19/3,K/3 (Item 1 from file: 636) [Links](#)

Gale Group Newsletter DB(TM)

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01151911 **Supplier Number:** 40960819 (USE FORMAT 7 FOR FULLTEXT)

Cardiac Patient Robot for Auscultation Training

Japan Report Medical Technology , n 5 , p N/A

Oct , 1989

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; Trade

Word Count: 466

...a function that shows the entire body's blood pressure changes in linkage with the **heartbeat**.

Using a **computer** (other than the one connected to the mannequin), enables the blood pressure and bloodflow **waveform** of 14 parts (from the brain, to the skin of the feet and fingers) to...

19/3,K/4 (Item 1 from file: 160) [Links](#)

Gale Group PROMT(R)

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02318571

OUTPUT WAVEFORMS ACQUIRED FROM REAL-LIFE TRANSIENTS

News Release August 16, 1989 p. 1

...square, triangle, ramp, pulse, or white noise waveforms. Output any arbitrary waveform using the integrated PC compatible controller. A built in **waveform** library includes: noise sinewave, decaying sinewave, full rectified sinewave, AM swept, half AM modulation, and vibration **waveforms**. Simulate: brainwave, pacemaker, **heartbeat**, nerve response, switcher motor, solenoid, relay contact, disk drive, and material testing **waveforms**.

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? t 14/3,k/all

14/3,K/1 (Item 1 from file: 621) [Links](#)

Gale Group New Prod.Annou.(R)

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02138509 **Supplier Number: 55347601 (USE FORMAT 7 FOR FULLTEXT)**
Hypertension Diagnostics Announces Agreement With MedWave Marketing.

PR Newswire , p 5655
August 4 , 1999
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 569

...will be the primary focus of this consulting agreement. We look forward to developing the **data-based** evidence these strategic customers will need to position our unique technology package as a new...

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Founded in 1988, Hypertension Diagnostics is focused on the development of proprietary **cardiovascular** profiling technology that analyzes arterial pulse pressure **waveform** data. HDI has developed two models of its HDI/PulseWave CardioVascular Profiling Instrument. HDI's ...

14/3,K/2 (Item 1 from file: 16) [Links](#)
Gale Group PROMT(R)
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06537160 **Supplier Number: 55347601 (USE FORMAT 7 FOR FULLTEXT)**

Hypertension Diagnostics Announces Agreement With MedWave Marketing.

PR Newswire , p 5655
August 4 , 1999
Language: English **Record Type:** Fulltext
Document Type: Newswire ; Trade
Word Count: 569

...will be the primary focus of this consulting agreement. We look forward to developing the **data-based** evidence these strategic customers will need to position our unique technology package as a new...

...in the agreement."

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14/3,K/3 (Item 1 from file: 148) [Links](#)

? show files

[File 610] **Business Wire** 1999-2007/Apr 05

(c) 2007 Business Wire. All rights reserved.

**File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.*

[File 810] **Business Wire** 1986-1999/Feb 28

(c) 1999 Business Wire . All rights reserved.

[File 476] **Financial Times Fulltext** 1982-2007/Apr 05

(c) 2007 Financial Times Ltd. All rights reserved.

[File 624] **McGraw-Hill Publications** 1985-2007/Apr 04

(c) 2007 McGraw-Hill Co. Inc. All rights reserved.

**File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more*

[File 634] **San Jose Mercury** Jun 1985-2007/Apr 04

(c) 2007 San Jose Mercury News. All rights reserved.

[File 20] **Dialog Global Reporter** 1997-2007/Apr 05

(c) 2007 Dialog. All rights reserved.

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; d s
Set      Items  Description
S1       1778082 ACOUSTICAL OR AUDIO OR SOUND FROM 610, 810, 476, 624, 634, 20
S2       1107972 SHAPE OR CHARACTERISTICS OR SLOPE OR PATTERN FROM 610, 810, 476, 624, 634,
20
S3        5610   WAVEFORM? FROM 610, 810, 476, 624, 634, 20
S4       137892 HEARTBEAT? OR HEART()BEAT? OR CARDIOVASCULAR? FROM 610, 810, 476, 624,
634, 20
S5        923   CARDIO()GRAPH? OR CARDIOGRAPH? FROM 610, 810, 476, 624, 634, 20
S6       794062 DATABANK? ? OR DATABASE? ? OR DATA() (BANK? ? OR BASE? ?) FROM 610, 810,
476, 624, 634, 20
S7       1113546 PATIENT? ? FROM 610, 810, 476, 624, 634, 20
S8       2663470 MONITOR? OR SENSOR? FROM 610, 810, 476, 624, 634, 20
S9       1747488 SUBMIT? OR TRANSMIT? OR INPUT? FROM 610, 810, 476, 624, 634, 20
S10      1094   (NOTIFY? OR NOTIFICATION? OR MESSAGE? OR EMAIL) (3N) (DOCTOR OR PHYSICIAN)
FROM 610, 810, 476, 624, 634, 20
S11       67    S S3(6N) (S4 OR HEART)
S12     4108435 S PC OR COMPUTER? OR LAPTOP? OR LAP()TOP? ? OR PDA OR BLACKBERRY OR
DIGITAL()ASSISTANT?
S13        0    S S11(10N)S6(5N)S12
S14        3    S S11(10N) (S6 OR S12)
S15       64    S S11 NOT S14
S16       43    S S15/1999:2007
S17       21    S S15 NOT S16
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? t 13/7

14/3,k/all

14/3,K/1 (Item 1 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0167646 BW033

WESTMARK INTL : ATL and SpaceLabs introduce new products at ACC meeting

March 19, 1990

Byline: Business Editors/Medical Technology Writers

...three new products:

MultiView Arrhythmia monitoring, the PCMS Digital Telemetry System for "cordless" monitoring of **heart waveforms**

in hospital intermediate

care units, and the PC Express monitor, the industry's first truly modular portable monitor. All product introductions are fully...

14/3,K/2 (Item 2 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0167644 BW032

WESTMARK INTL : ATL and SpaceLabs introduce new products at ACC meeting

March 19, 1990

Byline: Business Editors/Medical Technology Writers

...three new products:

MultiView Arrhythmia monitoring, the PCMS Digital Telemetry System for "cordless" monitoring of **heart waveforms**

in hospital intermediate

care units, and the PC Express monitor, the industry's first truly modular portable monitor. All product introductions are fully...

14/3,K/3 (Item 1 from file: 20) [Links](#)

Dialog Global Reporter

(c) 2007 Dialog. All rights reserved.

13340042 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Study in Surgical Use Confirms the Vasotrac(R) NIBP Monitor's Performance With Difficult Patients

PR NEWSWIRE

October 17, 2000

Journal Code: WPRW **Language:** English **Record Type:** FULLTEXT

Word Count: 530

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...pulse oxymetry and urine output were continuously monitored. Direct BP and simultaneously measured Vasotrac BP, **waveform** and **heart** rate were recorded continuously on a **PC computer** just before and during DH. BP measured directly (via radial artery catheter) was analyzed for...

?

21 S S15 NOT S16

? t 17/3,k/all

17/3,K/1 (Item 1 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0847438 BW0135

Business Wire Recap

May 06, 1998

Byline: EDITORS

...BW1159 09:31)

(MARQUETTE-MEDICAL) (MARQ) MILWAUKEE--Marquette CV-WEB Enables Intranet Access to MUSE **Cardiovascular** Data and ECG **Waveforms**

(BW0109

09:31)

(PARKER-HANNIFIN) (PH) CLEVELAND--Parker Acquires Assets of Dynamic Valves, Inc. (BW1162...

17/3,K/2 (Item 2 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0847379 BW0109

MARQUETTE MEDICAL : Marquette CV-WEB Enables Intranet Access to MUSE Cardiovascular Data and ECG Waveforms

May 06, 1998

Byline: Business Editors, Hi-Tech Writers

Marquette CV-WEB Enables Intranet Access to MUSE Cardiovascular Data and ECG Waveforms

17/3,K/3 (Item 3 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0843331 BW0028

HEWLETT PACKARD : AHA Scientific Statement Concludes HP' Low-Energy Biphasic Waveform Technology is Safe, Acceptable and Clinically Effective

April 29, 1998

Byline: Business Editors and Health/Medical Writers

...is the only AED cleared for use by the FDA that incorporates low-energy biphasic **waveform**.

The AHA's Committee on Emergency **Cardiovascular** Care (ECC) and its subcommittees published their conclusions on the low-energy biphasic waveform in...

17/3,K/4 (Item 4 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0827130 BW0175

MARQUETTE MEDICAL : Marquette Medical Announces Initiative To Integrate Echo Data From All Major Ultrasound Vendors Into the Marquette Cardiovascular Information System

March 26, 1998

Byline: Business Editors, Medical Writers

...to echo data, the MUSE is the repository of choice for managing, processing and distributing **cardiovascular** data and **waveforms**

from 15 different procedures such as cardiac cath, EP, exercise, Holter, ECG, nuclear, and defibrillator...

17/3,K/5 (Item 5 from file: 810) [Links](#)

Business Wire

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0826533 BW0158

MARQUETTE MEDICAL : Marquette Medical Systems Receives Certification for Software Link To ACC National Cardiovascular Data Registry

March 25, 1998

Byline: Business Editors, Technology and Health Writers

...r) and the Midas System(r) provide. "Because MUSE provides access to textual data and **waveforms** from 16 different **cardiovascular** procedures including cardiac catheterization, stress tests, Holter, defibrillator, ECG, and nuclear cardiology studies, MUSE users...

17/3,K/6 (Item 6 from file: 810) [Links](#)

Business Wire

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0800350 BW1223

MARQUETTE MEDICAL : Marquette Announces Information Interchange - i2 - Program for World's Most Popular Cardiovascular Information System

January 27, 1998

Byline: Business Editors, Medical/Technology Writers

...Marquette to interface their products."
The MUSE CV Information System provides access to data and **waveforms** from 16 different **cardiovascular** procedures including cardiac catheterization, stress tests, holter, defibrillator, ECG, echocardiography and nuclear cardiology studies. The...

17/3,K/7 (Item 7 from file: 810) [Links](#)

Business Wire

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0694690 BW1027

HEARTSTREAM : New studies show superiority of biphasic waveform in treating sudden cardiac arrest

April 23, 1997

Byline: Health/Medical Writers and Business Editors

...current than monophasic shocks.
The authors also determined that animals treated with low energy

biphasic waveforms had evidence of significantly less heart dysfunction following treatment than those treated with monophasic shocks. However, the authors also noted that...

17/3,K/8 (Item 8 from file: 810) [Links](#)
Business Wire
(c) 1999 Business Wire . All rights reserved.
0675647 BW1397

MARQUETTE MEDICAL SYST : Marquette, Physio-Control forge alliance

February 25, 1997

...heart monitor/defibrillator with 12-lead capability to capture an electrocardiogram (ECG) from a suspected heart attack victim and immediately transmit the waveforms to the Marquette MUSE CV(TM) cardiovascular information system installed at the hospital -- before the patient is even placed in an ambulance...

17/3,K/9 (Item 9 from file: 810) [Links](#)
Business Wire
(c) 1999 Business Wire . All rights reserved.
0489893 BW1092

ANALOGIC : Analogic announces FDA acceptance of 510(k) application for FETALGARD 3000 family of fetal monitors

May 26, 1995

Byline: Business Editors

...monitors in one, the IP2 is both a non-invasive physiologic maternal monitor providing maternal heart rate (MHR) and respiration waveform displays, and a fully functional fetal monitor capable of monitoring triplets. The IP2 also offers...

17/3,K/10 (Item 10 from file: 810) [Links](#)
Business Wire
(c) 1999 Business Wire . All rights reserved.
0382128 BW196

PROTOCOL SYSTEMS 2 : Protocol Systems Inc. Introduces Telemetry-Based Patient Monitoring System

January 27, 1994

Byline: Business Editors

...display. The Propaq monitor processes and displays the data in real-time, which comprises ECG **waveform** and numeric **heart** rate, battery voltage, lead-off, pacemaker detection and transmitter identification. The Protocol Cordless system also...

17/3,K/11 (Item 11 from file: 810) [Links](#)
Business Wire
(c) 1999 Business Wire . All rights reserved.
0358931 BW751

BIOSYSS : Biosyss seeks F.D.A.'s approval to market world's first continuous, non-invasive blood-pressure-monitoring device based on arterial-pulse waveform analysis technology

September 29, 1993

Byline: Business Editors

...s products are based on the company's revolutionary and patent-pending technological approach to **cardiovascular** monitoring and diagnostics -- called arterial-pulse **waveform** analysis.
Biosyss uses piezoelectric sensors, such as those used in sophisticated geo-seismic equipment, for...

17/3,K/12 (Item 12 from file: 810) [Links](#)
Business Wire
(c) 1999 Business Wire . All rights reserved.
0337639 BW772

BIOSYSS NEBH : NEBH begins clinical study of world's first continuous, non-invasive blood pressure monitoring device

June 2, 1993

Byline: Business Editors

...invasive monitoring system.
The device is based on the Biosyss's novel technological approach

to **cardiovascular** diagnostics, called arterial-pulse **waveform** analysis.

The Biosyss system not only continuously and non-invasively provides a real-time display...

17/3,K/13 (Item 13 from file: 810) [Links](#)

Business Wire

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0326663 BW710

BIOSYSS : Biosyss names Jeffrey T. Barnes as its new president

March 30, 1993

Byline: Business Editors

...now in development, products which are based on the company's revolutionary technological approach to **cardiovascular** diagnostics -- called "arterial-pulse **waveform** analysis."

Biosyss uses "piezoelectric" sensors, such as those used in sophisticated geoseismic equipment, for converting...

17/3,K/14 (Item 14 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.

0317421 BW666

BIOSYSS : Biosyss begins clinical evaluation of its continuous, non-invasive blood-pressure-monitoring device

February 2, 1993

Byline: Business Editors

...this year.

Biosyss's products are based on the company's revolutionary technological approach to **cardiovascular** diagnostics -- called "arterial-pulse **waveform** analysis."

Biosyss uses "piezoelectric" sensors, such as those used in sophisticated geoseismic equipment, for converting...

17/3,K/15 (Item 15 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.
0315524 BW651

BIOSYSS : Biosyss signs product-development agreement

January 22, 1993

Byline: Business Editors

...a patient.

Biosyss's products are based on the company's revolutionary technological approach to **cardiovascular** diagnostics -- called "arterial-pulse **waveform** analysis."

Biosyss uses "piezoelectric" sensors, such as those used in sophisticated geoseismic equipment, for converting...

17/3,K/16 (Item 16 from file: 810) [Links](#)

Business Wire

(c) 1999 Business Wire . All rights reserved.
0038990 BW717

GENERAL SCANNING : General Scanning sells China province \$2 million of medical equipment and manufacturing technology

February 13, 1987

Byline: Business Editors

...Guangdong Province, with its open loop galvanometer; a small electro mechanical device that is the **heart** of hundreds of different analog **waveform** recording applications in the medical, general industrial, petrochemical and geophysical markets.

Designed for use in...

17/3,K/17 (Item 1 from file: 476) [Links](#)

Financial Times Fulltext

(c) 2007 Financial Times Ltd. All rights reserved.
0003019696 B05DIA7AACFT

Technology (Health): Portable Heart Starters

Financial Times , Section L. ED , P 14

Tuesday , March 19, 1985

DOCUMENT TYPE: NEWSPAPER **LANGUAGE:** ENGLISH **RECORD TYPE:** FULLTEXT

Word Count: 312

...the condition.

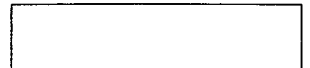
The 4,200 pounds sterling machines also has a display which shows the **waveform** of the **heart beat**, so that the operator can monitor the effect of the stimuli.

The hardware is suitable...

17/3,K/18 (Item 1 from file: 624) [Links](#)

McGraw-Hill Publications

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0368401

Maximizing Your PC for Graphics

Rick Farris

Unix World, Vol. IX, No. 2, Pg 61

February, 1992

JOURNAL CODE: UNIX

SECTION HEADING: What's New: Point of Purchase ISSN: 0739-5922

WORD COUNT: 1,550

TEXT:

... intensive care units (ICUs) and displays it under X Windows. "We have ICU monitors with **heart waveforms** and pressure **waveforms**," he explains, "and then we have information systems that are UNIX boxes that sit on..."

17/3,K/19 (Item 1 from file: 20) [Links](#)

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01556416 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Marquette CV-WEB Enables Intranet Access to MUSE Cardiovascular Data and ECG Waveforms

BUSINESS WIRE

May 06, 1998 9:46

Journal Code: WBWE Language: English Record Type: FULLTEXT

Word Count: 410

Marquette CV-WEB Enables Intranet Access to MUSE Cardiovascular Data and ECG Waveforms

17/3,K/20 (Item 2 from file: 20) [Links](#)

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01245534 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Marquette Medical Announces Initiative To Integrate Echo Data From All Major Ultrasound Vendors Into the Marquette Cardiovascular Information System

BUSINESS WIRE

March 26, 1998 14:38

Journal Code: WBWE Language: English Record Type: FULLTEXT

Word Count: 392

...to echo data, the MUSE is the repository of choice for managing, processing and distributing **cardiovascular** data and **waveforms** from 15 different procedures such as cardiac cath, EP, exercise, Holter, ECG, nuclear, and defibrillator...

17/3,K/21 (Item 3 from file: 20) [Links](#)

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01236338 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Marquette Medical Systems Receives Certification for Software Link To ACC National Cardiovascular Data Registry

BUSINESS WIRE

March 25, 1998 12:53

Journal Code: WBWE Language: English Record Type: FULLTEXT

Word Count: 376

...r) and the Midas System(r) provide. "Because MUSE provides access to textual data and **waveforms** from 16 different **cardiovascular** procedures including cardiac catheterization, stress tests, Holter, defibrillator, ECG, and nuclear cardiology studies, MUSE users...

?

? show files

[File 72] EMBASE 1993-2007/Apr 05

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[File 73] EMBASE 1974-2007/Apr 05

(c) 2007 Elsevier B.V. All rights reserved.

[File 149] TGG Health&Wellness DB(SM) 1976-2007/Mar W3

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; d s
Set      Items      Description
S1       100715      ACOUSTICAL OR AUDIO OR SOUND FROM 72, 73, 149
S2       1238404     SHAPE OR CHARACTERISTICS OR SLOPE OR PATTERN FROM 72, 73, 149
S3       30102       WAVEFORM? FROM 72, 73, 149
S4       1666451     HEARTBEAT? OR HEART()BEAT? OR CARDIOVASCULAR? FROM 72, 73, 149
S5       3511        CARDIO()GRAPH? OR CARDIOGRAPH? FROM 72, 73, 149
S6       191507      DATABANK? ? OR DATABASE? ? OR DATA() (BANK? ? OR BASE? ?) FROM 72, 73, 149
S7       4920224     PATIENT? ? FROM 72, 73, 149
S8       920992      MONITOR? OR SENSOR? FROM 72, 73, 149
S9       346900      SUBMIT? OR TRANSMIT? OR INPUT? FROM 72, 73, 149
S10      892         (NOTIFY? OR NOTIFICATION? OR MESSAGE? OR EMAIL) (3N) (DOCTOR OR PHYSICIAN)
FROM 72, 73, 149
S11      1686        S3(6N) (S4 OR HEART) FROM 72, 73, 149
S12      1444970     PC OR COMPUTER? OR LAPTOP? OR LAP()TOP? ? OR PDA OR BLACKBERRY OR
DIGITAL()ASSISTANT? FROM 72, 73, 149
S13      0           S11(10N)S6(5N)S12 FROM 72, 73, 149
S14      106         S11(10N) (S6 OR S12) FROM 72, 73, 149
S15      1580        S11 NOT S14 FROM 72, 73, 149
S16      1171        S15/1999:2007 FROM 72, 73, 149
S17      409         S15 NOT S16 FROM 72, 73, 149
S18      0           S S14(10N)S10
S19      0           S S14(10N)S2
S20      79          S S14/1999:2007
S21      409         S S17 NOT S20
S22      79          S S14/1999:2007
S23      27          S S14 NOT S22
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S20 13 S S14 NOT S18
S21 13 RD (unique items)

? t 23/3,k/all

23/3,K/1 (Item 1 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

EMBASE

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07400091 EMBASE No: 1998311521

Testing neonate-infant membrane oxygenators with the University of Texas neonatal pulsatile cardiopulmonary bypass system in vitro

Undar A.; Holland M.C.; Howelton R.V.; Benson C.K.; Ybarra J.R.; LaWayne Miller O.; Rossbach M.M.; Runge T.M.; Johnson S.B.; Sako E.Y.; Calhoon J.H.

A. Undar, Cardiothoracic Research Laboratory, Department of Surgery, Univ Texas Hlth Sci Ctr San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7841 United States

Author Email: undar@uthscsa.edu

Perfusion (PERFUSION) (United Kingdom) 1998 , 13/5 (346-352)

CODEN: PERFE **ISSN:** 0267-6591

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

Number Of References: 41

MEDICAL DESCRIPTORS:

neurological complication--prevention--pc; heart ventricle ejection time; waveform; human; article; priority journal

23/3,K/2 (Item 2 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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07267163 EMBASE No: 1998150260

Model-based estimation of cardiovascular repolarization features: Ischaemia detection and PTCA monitoring

Laguna P.; Garcia J.; Roncal I.; Wagner G.; Lander P.; Mark R.

P. Laguna, Depto. Ingenieria Electron. y Comun., Centro Politecnico Superior, Universidad de Zaragoza, Zaragoza Spain

Journal of Medical Engineering and Technology (J. MED. ENG. TECHNOL.) (United Kingdom) 1998 , 22/2 (64-72)

CODEN: JMTED **ISSN:** 0309-1902

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

Number Of References: 13

MEDICAL DESCRIPTORS:

st segment; t wave; waveform; clinical protocol; data base; heart rate; oscillation; signal noise ratio; analytic

method; human; article

23/3,K/3 (Item 3 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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06856490 EMBASE No: 1997139125

Cardiotocogram compared to Doppler investigation of the fetal circulation in the premature growth-retarded fetus: Longitudinal observations

Hecher K.; Hackeloer B.-J.

Dr. K. Hecher, Dept. Prenatal Diagnosis and Therapy, AK Barmbek, Rubenkamp 148, 22291 Hamburg Germany
Ultrasound in Obstetrics and Gynecology (ULTRASOUND OBSTET. GYNECOL.) (United Kingdom) 1997 ,
9/3 (152-161)

CODEN: UOGYF ISSN: 0960-7692

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

Number Of References: 26

It was our objective to compare **computerized** fetal heart rate analysis with blood flow velocity **waveform** analysis of the arterial and venous fetal circulation in intrauterine growth retardation. We report five...

23/3,K/4 (Item 4 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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06202304 EMBASE No: 1995239589

How useful is intrapartum electronic fetal heart rate monitoring?

Groves P.A.; Oriol N.E.

Dept of Anesthesia and Critical Care, Beth Israel Hospital, Harvard Medical School, 330 Brook line Avenue, Boston, MA 02 215 United States

International Journal of Obstetric Anesthesia (INT. J. OBSTET. ANESTH.) (United Kingdom) 1995 , 4/3
(161-167)

CODEN: IOANE ISSN: 0959-289X

Document Type: Journal ; Review

Language: ENGLISH Summary Language: ENGLISH

...accuracy of fetal assessment. The new developments in fetal monitoring discussed in this article are **computerized** assessment of fetal heart tracings, **heart** rate variability analysis, fetal electrocardiogram **waveform** analysis, abdominal detection of fetal EGG, fetal scalp oxygen saturation, fetal pH sampling and transcutaneous...

23/3,K/5 (Item 5 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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06156111 EMBASE No: 1995197297

Development and evaluation of heart rate monitor at bathtub

Yoshimura T.; Nakajima K.; Tamura T.; Miike H.; Togawa T.

Dept. of Electrical/Electronic Engg., Yamaguchi University, Yamaguchi Japan

Japanese Journal of Medical Electronics and Biological Engineering (JPN. J. MED. ELECTRON. BIOL. ENG.) (Japan) 1994 , 32/4 (246-253)

CODEN: IYSEA **ISSN:** 0021-3292

Document Type: Journal ; Article

Language: JAPANESE **Summary Language:** ENGLISH; JAPANESE

MEDICAL DESCRIPTORS:

article; bath; **computer** assisted diagnosis; electric conductivity; electrocardiogram; **heart** rate; information processing; r wave; **waveform**

23/3,K/6 (Item 6 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05991163 EMBASE No: 1995019779

Analysis of PTCA-induced ischemia using an ECG inverse solution or the wavelet transform

MacLeod R.S.; Brooks D.H.; On H.; Krim H.; Lux R.L.; Kornreich F.

Nora Eccles Harrison CVRTI, University of Utah, Building 500, Salt Lake City, UT 84112 United States

Journal of Electrocardiology (J. ELECTROCARDIOL.) (United States) 1994 , 27/SUPPL. (93-99)

CODEN: JECAB **ISSN:** 0022-0736

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

analytic method; article; body surface; **computer** model; electrocardiography; electrode; **heart** electrophysiology; human; priority journal; trunk; **waveform**

23/3,K/7 (Item 7 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05913208 EMBASE No: 1994319077

Entrainment of reentrant tachycardia in a computer model

Abildskov J.A.; Lux R.L.

Nora Eccles Harrison CVRTI, Building 500, University of Utah, Salt Lake City, UT 84112 United States

Journal of Electrocardiology (J. ELECTROCARDIOL.) (United States) 1994 , 27/4 (277-286)

CODEN: JECAB **ISSN:** 0022-0736

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

article; **computer** model; **computer** simulation; heart cycle; heart excitation; heart pacing; **heart** rate; priority journal; qrs complex; **waveform**

23/3,K/8 (Item 8 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05780791 **EMBASE** No: 1994194441

Nonuniform muscle fiber orientation causes spiral wave drift in a finite element model of cardiac action potential propagation

Rogers J.M.; McCulloch A.D.

San Diego Supercomputer Center, P.O. Box 85608, San Diego, CA 92186-9784 United States

Journal of Cardiovascular Electrophysiology (J. CARDIOVASC. ELECTROPHYSIOL.) (United States) 1994 , 5/6 (496-509)

CODEN: JCELE **ISSN:** 1045-3873

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

anisotropy; article; **computer** model; **heart** electrophysiology; priority journal; **waveform**

23/3,K/9 (Item 9 from file: 72) [Links](#)

Fulltext available through: [ScienceDirect \(Elsevier\)](#) [USPTO Full Text Retrieval Options](#)

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05734623 **EMBASE** No: 1994131254

The development of implantable cardioversion defibrillation systems: The clinical chronicle of defibrillation leads

Timmis G.C.; Oak R.

Director of Research, Division of Cardiology, William Beaumont Hospital, 3601 W. Thirteen Mile Rd, Royal Oak, MI 48073 United States

American Heart Journal (AM. HEART J.) (United States) 1994 , 127/4 II SUPPL. (1003-1009)

CODEN: AHJOA **ISSN:** 0002-8703

Document Type: Journal ; Conference Paper

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

* bradycardia--prevention--pc; * bradycardia--therapy--th; * cardioversion; * defibrillator; * electrode; * **heart** ventricle arrhythmia; * **waveform**

23/3,K/10 (Item 10 from file: 72) [Links](#)

Fulltext available through: [Institute of Electrical and Electronics Engineers](#) [USPTO Full Text Retrieval Options](#)

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05720694 EMBASE No: 1994137700

Refractory period prolongation by biphasic defibrillator waveforms is associated with enhanced sodium current in a computer model of the ventricular action potential

Jones J.L.; Jones R.E.; Milne K.B.

Dept. of Physiology and Biophysics, Georgetown University, Washington, DC United States

IEEE Transactions on Biomedical Engineering (IEEE TRANS. BIOMED. ENG.) (United States) 1994 , 41/1 (60-68)

CODEN: IEBEA ISSN: 0018-9294

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

MEDICAL DESCRIPTORS:

article; computer model; heart electrophysiology; heart ventricle; hyperpolarization; waveform

23/3,K/11 (Item 11 from file: 72) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05473772 EMBASE No: 1993241871

Potential distributions generated by point stimulation in a myocardial volume: Simulation studies in a model of anisotropic ventricular muscle

Franzone P.C.; Guerri L.; Taccardi B.

Istituto Analisi Numerica del C.N.R., via Abbiategrasso 209, 5-27100 Pavia Italy

Journal of Cardiovascular Electrophysiology (J. CARDIOVASC. ELECTROPHYSIOL.) (United States) 1993 , 4/4 (438-458)

CODEN: JCELE ISSN: 1045-3873

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

MEDICAL DESCRIPTORS:

anisotropy; article; computer simulation; electrostimulation; endocardium; epicardium mapping; heart excitation; heart muscle potential; heart pacing; purkinje fiber; waveform

23/3,K/12 (Item 1 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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07400091 EMBASE No: 1998311521

Testing neonate-infant membrane oxygenators with the University of Texas neonatal pulsatile cardiopulmonary bypass system in vitro

Undar A.; Holland M.C.; Howelton R.V.; Benson C.K.; Ybarra J.R.; LaWayne Miller O.; Rossbach M.M.; Runge T.M.; Johnson S.B.; Sako E.Y.; Calhoun J.H.

A. Undar, Cardiothoracic Research Laboratory, Department of Surgery, Univ Texas Hlth Sci Ctr San Antonio, 7703
Floyd Curl Drive, San Antonio, TX 78284-7841 United States

Author Email: undar@uthscsa.edu

Perfusion (PERFUSION) (United Kingdom) 1998 , 13/5 (346-352)

CODEN: PERFE **ISSN:** 0267-6591

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

Number Of References: 41

MEDICAL DESCRIPTORS:

neurological complication--prevention--pc; heart ventricle ejection time; waveform; human; article; priority
journal

23/3,K/13 (Item 2 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

EMBASE

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07267163 **EMBASE No:** 1998150260

Model-based estimation of cardiovascular repolarization features: Ischaemia detection and PTCA monitoring

Laguna P.; Garcia J.; Roncal I.; Wagner G.; Lander P.; Mark R.

P. Laguna, Depto. Ingenieria Electron. y Comun., Centro Politecnico Superior, Universidad de Zaragoza, Zaragoza
Spain

Journal of Medical Engineering and Technology (J. MED. ENG. TECHNOL.) (United Kingdom) 1998 , 22/2
(64-72)

CODEN: JMTED **ISSN:** 0309-1902

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

Number Of References: 13

MEDICAL DESCRIPTORS:

st segment; t wave; waveform; clinical protocol; data base; heart rate; oscillation; signal noise ratio; analytic
method; human; article

23/3,K/14 (Item 3 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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06856490 **EMBASE No:** 1997139125

**Cardiotocogram compared to Doppler investigation of the fetal circulation in the premature growth-retarded
fetus: Longitudinal observations**

Hecher K.; Hackeloer B.-J.

Dr. K. Hecher, Dept. Prenatal Diagnosis and Therapy, AK Barmbek, Rubenkamp 148, 22291 Hamburg Germany
Ultrasound in Obstetrics and Gynecology (ULTRASOUND OBSTET. GYNECOL.) (United Kingdom) 1997 ,
9/3 (152-161)

CODEN: UOGYF **ISSN:** 0960-7692

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

Number Of References: 26

It was our objective to compare **computerized fetal heart** rate analysis with blood flow velocity **waveform** analysis of the arterial and venous fetal circulation in intrauterine growth retardation. We report five...

23/3,K/15 (Item 4 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)
EMBASE

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06202304 **EMBASE No:** 1995239589

How useful is intrapartum electronic fetal heart rate monitoring?

Groves P.A.; Oriol N.E.

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International Journal of Obstetric Anesthesia (INT. J. OBSTET. ANESTH.) (United Kingdom) 1995 , 4/3 (161-167)

CODEN: IOANE **ISSN:** 0959-289X

Document Type: Journal ; Review

Language: ENGLISH **Summary Language:** ENGLISH

...accuracy of fetal assessment. The new developments in fetal monitoring discussed in this article are **computerized** assessment of fetal heart tracings, **heart** rate variability analysis, fetal electrocardiogram **waveform** analysis, abdominal detection of fetal EGG, fetal scalp oxygen saturation, fetal pH sampling and transcutaneous...

23/3,K/16 (Item 5 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)
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06156111 **EMBASE No:** 1995197297

Development and evaluation of heart rate monitor at bathtub

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Japanese Journal of Medical Electronics and Biological Engineering (JPN. J. MED. ELECTRON. BIOL. ENG.) (Japan) 1994 , 32/4 (246-253)

CODEN: IYSEA **ISSN:** 0021-3292

Document Type: Journal ; Article

Language: JAPANESE **Summary Language:** ENGLISH; JAPANESE

MEDICAL DESCRIPTORS:

article; bath; **computer** assisted diagnosis; electric conductivity; electrocardiogram; **heart** rate; information processing; r wave; **waveform**

23/3,K/17 (Item 6 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05991163 EMBASE No: 1995019779

Analysis of PTCA-induced ischemia using an ECG inverse solution or the wavelet transform

MacLeod R.S.; Brooks D.H.; On H.; Krim H.; Lux R.L.; Kornreich F.

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Journal of Electrocardiology (J. ELECTROCARDIOL.) (United States) 1994 , 27/SUPPL. (93-99)

CODEN: JECAB ISSN: 0022-0736

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

MEDICAL DESCRIPTORS:

analytic method; article; body surface; **computer** model; electrocardiography; electrode; **heart** electrophysiology; human; priority journal; trunk; **waveform**

23/3,K/18 (Item 7 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05913208 EMBASE No: 1994319077

Entrainment of reentrant tachycardia in a computer model

Abildskov J.A.; Lux R.L.

Nora Eccles Harrison CVRTI, Building 500, University of Utah, Salt Lake City, UT 84112 United States

Journal of Electrocardiology (J. ELECTROCARDIOL.) (United States) 1994 , 27/4 (277-286)

CODEN: JECAB ISSN: 0022-0736

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

MEDICAL DESCRIPTORS:

article; **computer** model; **computer** simulation; heart cycle; heart excitation; heart pacing; **heart** rate; priority journal; qrs complex; **waveform**

23/3,K/19 (Item 8 from file: 73) [Links](#)

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05780791 EMBASE No: 1994194441

Nonuniform muscle fiber orientation causes spiral wave drift in a finite element model of cardiac action potential propagation

Rogers J.M.; McCulloch A.D.

San Diego Supercomputer Center, P.O. Box 85608, San Diego, CA 92186-9784 United States
Journal of Cardiovascular Electrophysiology (J. CARDIOVASC. ELECTROPHYSIOL.) (United States) 1994 , 5/6 (496-509)

CODEN: JCELE **ISSN:** 1045-3873

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

anisotropy; article; **computer** model; **heart** electrophysiology; priority journal; **waveform**

23/3,K/20 (Item 9 from file: 73) [Links](#)

Fulltext available through: [ScienceDirect \(Elsevier\)](#) [USPTO Full Text Retrieval Options](#)

EMBASE

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05734623 **EMBASE No:** 1994131254

The development of implantable cardioversion defibrillation systems: The clinical chronicle of defibrillation leads

Timmis G.C.; Oak R.

Director of Research, Division of Cardiology, William Beaumont Hospital, 3601 W. Thirteen Mile Rd, Royal Oak, MI 48073 United States

American Heart Journal (AM. HEART J.) (United States) 1994 , 127/4 II SUPPL. (1003-1009)

CODEN: AHJOA **ISSN:** 0002-8703

Document Type: Journal ; Conference Paper

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

* bradycardia--prevention--pc; *bradycardia--therapy--th; * cardioversion; *defibrillator; *electrode; *heart ventricle arrhythmia; ***waveform**

23/3,K/21 (Item 10 from file: 73) [Links](#)

Fulltext available through: [Institute of Electrical and Electronics Engineers](#) [USPTO Full Text Retrieval Options](#)

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05720694 **EMBASE No:** 1994137700

Refractory period prolongation by biphasic defibrillator waveforms is associated with enhanced sodium current in a computer model of the ventricular action potential

Jones J.L.; Jones R.E.; Milne K.B.

Dept. of Physiology and Biophysics, Georgetown University, Washington, DC United States

IEEE Transactions on Biomedical Engineering (IEEE TRANS. BIOMED. ENG.) (United States) 1994 , 41/1 (60-68)

CODEN: IEBEA **ISSN:** 0018-9294

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

article; **computer** model; **heart** electrophysiology; **heart** ventricle; hyperpolarization; **waveform**

23/3,K/22 (Item 11 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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05473772 EMBASE No: 1993241871

Potential distributions generated by point stimulation in a myocardial volume: Simulation studies in a model of anisotropic ventricular muscle

Franzone P.C.; Guerri L.; Taccardi B.

Istituto Analisi Numerica del C.N.R., via Abbiategrasso 209,5-27100 Pavia Italy

Journal of Cardiovascular Electrophysiology (J. CARDIOVASC. ELECTROPHYSIOL.) (United States) 1993 , 4/4 (438-458)

CODEN: JCELE ISSN: 1045-3873

Document Type: Journal ; Article

Language: ENGLISH Summary Language: ENGLISH

MEDICAL DESCRIPTORS:

anisotropy; article; **computer** simulation; electrostimulation; endocardium; epicardium mapping; heart excitation; **heart** muscle potential; **heart** pacing; purkinje fiber; **waveform**

23/3,K/23 (Item 12 from file: 73) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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04946398 EMBASE No: 1992086614

A comprehensive cardiovascular waveform analysis program for IBM(R)- compatible personal computers

Stewart S.F.C.; Liang I.Y.S.; Flack J.E.; Clark R.E.

Hydrodynamics and Acoustics Branch, Center for Devices and Radiological Health, Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20857 United States

Biomedical Instrumentation and Technology (BIOMED. INSTRUM. TECHNOL.) (United States) 1992 , 26/1 (39-47)

CODEN: BITYE ISSN: 0899-8205

Document Type: Journal ; Conference Paper

Language: ENGLISH Summary Language: ENGLISH

A comprehensive cardiovascular waveform analysis program for IBM(R)- compatible personal computers

Computerized cardiovascular waveform processing has become a necessary and fundamental tool in the analysis of physiologic data. The...

23/3,K/24 (Item 13 from file: 73) [Links](#)

Fulltext available through: [custom link](#) [USPTO Full Text Retrieval Options](#)

EMBASE

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04901155 EMBASE No: 1992041370

Defibrillation efficacy using two low-profile endocardial electrodes

Singer I.; Maldonado C.; Vance F.; Simpson P.; Kupersmith J.

University of Louisville, School of Medicine, 550 S. Jackson St., Louisville, KY 40292 United States

American Journal of the Medical Sciences (AM. J. MED. SCI.) (United States) 1991 , 302/2 (82-88)

CODEN: AJMSA **ISSN:** 0002-9629

Document Type: Journal ; Article

Language: ENGLISH **Summary Language:** ENGLISH

MEDICAL DESCRIPTORS:

animal experiment; article; **computer** program; dog; dose response; electric current; electric potential; heart pacing; **heart** ventricle fibrillation; instrumentation; nonhuman; priority journal; **waveform**

23/3,K/25 (Item 14 from file: 73) [Links](#)

EMBASE

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02433683 EMBASE No: 1983144694

Microprocessor control of a ventricular volume servo-pump

Sunagawa K.; Lim K.O.; Burkhoff D.; Sagawa K.

Dep. Biomed. Eng., Johns Hopkins Univ. Sch. Med., Baltimore, MD 21205 United States

Annals of Biomedical Engineering (ANN. BIOMED. ENG.) (United Kingdom) 1982 , 10/4 (145-159)

CODEN: ABMEC

Document Type: Journal

Language: ENGLISH

MEDICAL DESCRIPTORS:

isolated **heart**; pressure volume curve; **waveform**; theoretical study; **computer** analysis; nonhuman; **heart**

23/3,K/26 (Item 15 from file: 73) [Links](#)

EMBASE

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00907745 EMBASE No: 1978035902

Analysis of the thoracic electrical impedance waveform for estimation of cardiac output

Mapleson W.W.; Chilcoat R.T.; Blewett M.C.; Lunn J.N.

Dept. Anaesth., Welsh Nat. Sch. Med., Cardiff United Kingdom

British Journal of Anaesthesia (BR. J. ANAESTH.) 1977 , 49/2 (184)

CODEN: BJANA

Document Type: Journal

Language: ENGLISH

...impedance waveforms, which had been stored on magnetic tape, were digitized. Seven features of the **waveform** for each **heart** beat were measured with a Nova 2 mini **computer**, and averaged over about 20 successive heart beats. This gave mean values for each feature...

23/3,K/27 (Item 1 from file: 149) Links

TGG Health&Wellness DB(SM)

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01232659 **Supplier Number:** 08251956 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Advanced Technology Laboratories Inc. and SpaceLabs Inc. introduce new products at American College of Cardiology meeting. (product announcement)

PR Newswire , 0319SE002

March 19 ,

1990

Document Type: product announcement **Publication Format:** Newswire

Language: English

Record Type: Fulltext **Target Audience:** Trade

Word Count: 526 **Line Count:** 00053

...new products: MultiView (TM) Arrhythmia monitoring, the PCMS Digital Telemetry System for "cordless" monitoring of **heart waveforms** in hospital intermediate care units, and the PC Express (TM) monitor, the industry's first truly modular portable monitor. All product introductions are...

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[File 72] **EMBASE** 1993-2007/Apr 05

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[File 73] **EMBASE** 1974-2007/Apr 05

(c) 2007 Elsevier B.V. All rights reserved.

[File 149] **TGG Health&Wellness DB(SM)** 1976-2007/Mar W3

(c) 2007 The Gale Group. All rights reserved.

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Set	Items	Description
S1	100715	ACOUSTICAL OR AUDIO OR SOUND FROM 72, 73, 149
S2	1238404	SHAPE OR CHARACTERISTICS OR SLOPE OR PATTERN FROM 72, 73, 149
S3	30102	WAVEFORM? FROM 72, 73, 149
S4	1666451	HEARTBEAT? OR HEART()BEAT? OR CARDIOVASCULAR? FROM 72, 73, 149
S5	3511	CARDIO()GRAPH? OR CARDIOGRAPH? FROM 72, 73, 149
S6	191507	DATABANK? ? OR DATABASE? ? OR DATA() (BANK? ? OR BASE? ?) FROM 72, 73, 149
S7	4920224	PATIENT? ? FROM 72, 73, 149

S8 920992 MONITOR? OR SENSOR? FROM 72, 73, 149
 S9 346900 SUBMIT? OR TRANSMIT? OR INPUT? FROM 72, 73, 149
 S10 892 (NOTIFY? OR NOTIFICATION? OR MESSAGE? OR EMAIL) (3N) (DOCTOR OR PHYSICIAN)
 FROM 72, 73, 149
 S11 1686 S3(6N) (S4 OR HEART) FROM 72, 73, 149
 S12 1444970 PC OR COMPUTER? OR LAPTOP? OR LAP()TOP? ? OR PDA OR BLACKBERRY OR
 DIGITAL()ASSISTANT? FROM 72, 73, 149
 S13 0 S11(10N)S6(5N)S12 FROM 72, 73, 149
 S14 106 S11(10N) (S6 OR S12) FROM 72, 73, 149
 S15 1580 S11 NOT S14 FROM 72, 73, 149
 S16 1171 S15/1999:2007 FROM 72, 73, 149
 S17 409 S15 NOT S16 FROM 72, 73, 149
 S18 0 S S14(10N)S10
 S19 0 S S14(10N)S2
 S20 79 S S14/1999:2007
 S21 409 S S17 NOT S20
 S22 79 S S14/1999:2007
 S23 27 S S14 NOT S22

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[File 35] **Dissertation Abs Online** 1861-2007/Mar
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 583] **Gale Group Globalbase(TM)** 1986-2002/Dec 13
(c) 2002 The Gale Group. All rights reserved.
**File 583: This file is no longer updating as of 12-13-2002.*

[File 65] **Inside Conferences** 1993-2007/Apr 05
(c) 2007 BLDSC all rts. reserv. All rights reserved.

[File 2] **INSPEC** 1898-2007/Mar W4
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[File 144] **Pascal** 1973-2007/Mar W4
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[File 474] **New York Times Abs** 1969-2007/Apr 04
(c) 2007 The New York Times. All rights reserved.

[File 475] **Wall Street Journal Abs** 1973-2007/Apr 04
(c) 2007 The New York Times. All rights reserved.

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Mar
(c) 2007 The HW Wilson Co. All rights reserved.

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Set	Items	Description
S1	348064	ACOUSTICAL OR AUDIO OR SOUND FROM 35, 583, 65, 2, 144, 474, 475, 99
S2	2304244	SHAPE OR CHARACTERISTICS OR SLOPE OR PATTERN FROM 35, 583, 65, 2, 144, 474, 475, 99
S3	89042	WAVEFORM? FROM 35, 583, 65, 2, 144, 474, 475, 99
S4	547645	HEARTBEAT? OR HEART()BEAT? OR CARDIOVASCULAR? FROM 35, 583, 65, 2, 144, 474, 475, 99
S5	1741	CARDIO()GRAPH? OR CARDIOGRAPH? FROM 35, 583, 65, 2, 144, 474, 475, 99
S6	381114	DATABANK? ? OR DATABASE? ? OR DATA() (BANK? ? OR BASE? ?) FROM 35, 583, 65, 2, 144, 474, 475, 99
S7	1355564	PATIENT? ? FROM 35, 583, 65, 2, 144, 474, 475, 99
S8	1107834	MONITOR? OR SENSOR? FROM 35, 583, 65, 2, 144, 474, 475, 99
S9	842400	SUBMIT? OR TRANSMIT? OR INPUT? FROM 35, 583, 65, 2, 144, 474, 475, 99
S10	100	(NOTIFY? OR NOTIFICATION? OR MESSAGE? OR EMAIL) (3N) (DOCTOR OR PHYSICIAN) FROM 35, 583, 65, 2, 144, 474, 475, 99
S11	364	S3(6N) (S4 OR HEART) FROM 35, 583, 65, 2, 144, 474, 475, 99
S12	2302488	PC OR COMPUTER? OR LAPTOP? OR LAP()TOP? ? OR PDA OR BLACKBERRY OR DIGITAL()ASSISTANT? FROM 35, 583, 65, 2, 144, 474, 475, 99
S13	1	S11(10N)S6(5N)S12 FROM 35, 583, 65, 2, 144, 474, 475, 99
S14	16	S11(10N) (S6 OR S12) FROM 35, 583, 65, 2, 144, 474, 475, 99
S15	348	S11 NOT S14 FROM 35, 583, 65, 2, 144, 474, 475, 99
S16	155	S15/1999:2007 FROM 35, 583, 65, 2, 144, 474, 475, 99
S17	193	S15 NOT S16 FROM 35, 583, 65, 2, 144, 474, 475, 99
S18	3	S S14/1999:2007
S19	155	S S16 NOT S18

13/7/1 (Item 1 from file: 144) [Links](#)

Fulltext available through: [Institution of Electrical Engineers](#) [USPTO Full Text Retrieval Options](#)
Pascal

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12930505 PASCAL No.: 97-0202350

Applying incompletely connected feedforward neural network to ambulatory
ECG data compression

ZHAO Y; WANG B; ZHAO W; DONG L
Hangzhou Univ, Hangzhou, China
Journal: Electronics Letters, 1997
, 33 (3) 220-221

ISSN: 0013-5194 CODEN: ELLEAK Availability: INIST-12270

No. of Refs.: 3 Refs.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United Kingdom

Language: English

An incompletely connected feedforward neural network with three section
corresponding to the compression of the three parts of ECG, i.e. the P wave
part, the QRS complex part and the T wave part, is applied to ECG data
compression. Without increasing the computational burden, improve
compression results when there is much variation in the ECG waveforms.

/7/1 (Item 1 from file: 2) [Links](#)

INSPEC

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07112212 INSPEC Abstract Number: C9901-7330-398

Title: Nonlinear modelling of the ventricular activation function from the arterial pressure waveform

Author Guarini, M.; Urzua, J.; Cipriano, A.; Gonzalez, W.

Author Affiliation: Dept. de Ingenieria Electr., Pontificia Univ. Católica de Chile, Santiago, Chile

Conference Title: Simulation in the Medical Sciences Conference. Proceedings of the 1997 Western
MultiConference p. 163-7

Editor(s): Anderson, J.G.; Katzper, M.

Publisher: SCS, San Diego, CA, USA

Publication Date: 1997 **Country of Publication:** USA x+199 pp.

ISBN: 1 56555 105 2 **Material Identity Number:** XX98-02439

Conference Title: Proceedings of Simulation in the Medical Sciences

Conference Sponsor: SCS

Conference Date: 12-15 Jan. 1997 **Conference Location:** Phoenix, AZ, USA

Language: English **Document Type:** Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: In this work we present a nonlinear model of the left ventricle that realistically mimics the blood pumping towards the arterial load. A procedure that uses powerful nonlinear optimization algorithms is also presented, and was developed in order to estimate the parameters of the ventricular model, provided the user supplies the proximal arterial pressure waveform, as well as the corresponding blood flow waveform through the proximal aorta. The model and the estimation procedure were tested using **computer** generated **waveforms**, obtained through simulation of a **cardiovascular** model, and also using data obtained from laboratory dogs. Results show that the model is accurate and can be used to predict cardiac function in critical patients. However, this is only possible through more sophisticated estimation techniques, that must generate the required pressure and flow waveforms in a previous stage. (6 Refs)

Subfile: C

Copyright 1998, IEE

20/7/2 (Item 2 from file: 2) [Links](#)

INSPEC

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06093482 **INSPEC Abstract Number:** A9523-8760G-009, B9512-7510B-093

Title: Respiratory rhythm detection with photoplethysmographic methods

Author Barschdorff, D.; Wei Zhang

Author Affiliation: Paderborn Univ., Germany

Conference Title: Proceedings of the 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Engineering Advances: New Opportunities for Biomedical Engineers (Cat. No.94CH3474-4)

Part vol.2 p. 912-13 vol.2

Editor(s): Sheppard, N.F., Jr.; Eden, M.; Kantor, G.

Publisher: IEEE , New York, NY, USA

Publication Date: 1994 **Country of Publication:** USA 2 vol. (xxxii+xxiv+1421) pp.

ISBN: 0 7803 2050 6

U.S. Copyright Clearance Center Code: 0 7803 2050 6/94/\$4.00

Conference Title: Proceedings of 16th Annual International Conference of the IEEE Engineering in Medicine and Biology Society

Conference Date: 3-6 Nov. 1994 **Conference Location:** Baltimore, MD, USA

Language: English **Document Type:** Conference Paper (PA)

Treatment: Practical (P)

Abstract: A transmittance type infrared photoelectric plethysmograph (PPG) is described that performs time and frequency analysis of the peripheral finger volume pulse using an IBM 386 **computer**. It was revealed that in addition to the **heart** action the respiratory rhythm and **waveform** could be obtained from the peripheral volume pulse signal. This result was confirmed with the aid of a true respiration signal from a thermistor in different experiments: (1) varying breathing rates; (2) breathing-stop. The authors conclude that their new method may be useful for clinical noninvasive breath monitoring. (4 Refs)

Subfile: A B

Copyright 1995, IEE

20/7/3 (Item 3 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)
INSPEC

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05192219 **INSPEC Abstract Number:** C9208-7330-129

Title: A comprehensive cardiovascular waveform analysis program for IBM compatible personal computers

Author Stewart, S.F.C.; Liang, I.Y.S.; Flack, J.E.; Clark, R.E.

Author Affiliation: Nat. Heart, Lung and Blood Inst., Nat. Inst. of Health, Bethesda, MD, USA

Journal: Biomedical Instrumentation & Technology vol.26, no.1 p. 39-47

Publication Date: Jan.-Feb. 1992 **Country of Publication:** USA

CODEN: BITYE2 **ISSN:** 0899-8205

Language: English **Document Type:** Journal Paper (JP)

Treatment: Practical (P); Experimental (X)

Abstract: Computerized cardiovascular waveform processing has become a necessary and fundamental tool in the analysis of physiologic data. The availability of numerous commercial data-analysis programs has significantly enhanced the efficiency of waveform analysis. However, creating or modifying a program for each new experimental protocol can be time-consuming, especially in the error-detection and verification stages.

Single-purpose programs also prove somewhat inflexible to unexpected changes in experimental formats. These problems suggested the need for a more flexible program, but one that is nevertheless specifically suited to the analysis of cardiovascular signals. This need led to the development of a program designed in collaboration with surgeons and physiologists. This program addresses some important analysis problems in cardiovascular research, and allows the user to survey and manipulate cardiovascular waveforms in an intuitive and spontaneous manner. (7 Refs)

Subfile: C

20/7/4 (Item 4 from file: 2) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)
INSPEC

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03582551 **INSPEC Abstract Number:** A86012234, C86010945

Title: Computer-aided analysis of in-flight physiological measurement

Author Armstrong, G.C.

Author Affiliation: Comput. Sci. Corp., US Air Force Flight Test Center, Edwards Air Force Base, CA, USA

Journal: Behavior Research Methods, Instruments, & Computers vol.17, no.2 p. 183-5

Publication Date: April 1985 **Country of Publication:** USA

CODEN: BRMCEW **ISSN:** 0743-3808

Conference Title: 14th Annual Conference of the Society for Computers in Psychology

Conference Date: 7 Nov. 1984 **Conference Location:** San Antonio, TX, USA

Language: English **Document Type:** Conference Paper (PA); Journal Paper (JP)

Treatment: Experimental (X)

Abstract: Heart waveforms were collected from pilots under laboratory baseline conditions and in flight. The computer-aided method for smoothing the heart waveforms recorded in flight is described. (2 Refs)

Subfile: A C

20/7/5 (Item 1 from file: 144) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Pascal

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13668469 PASCAL No.: 98-0376505

Estimation of ventricular volume and elastance from the arterial pressure waveform

URZUA J; SALINAS C; CIPRIANO A; GUARINI M; LEMA G; CANESSA R

Departments of Anesthesiology and Elcctrical Engineering, and Medical Research Center, Catholic University of Chile, Santiago De Chile, Chile

Journal: Journal of clinical monitoring,
1998, 14 (3)
177-181

ISSN: 0748-1977 CODEN: JCMOEH Availability: INIST-20943
; 354000072434970050

No. of Refs.: 8 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

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20/7/6 (Item 2 from file: 144) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

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13585486 PASCAL No.: 98-0289193

Obstetric outcome in women who present with a reduction in fetal movements in the third trimester of pregnancy

HARRINGTON K; THOMPSON O; JORDAN L; PAGE J; CARPENTER R G;
CAMPBELL S

Academic Department of Obstetrics and Gynaecology, The Homerton and St Bartholomew's Hospitals, London, United Kingdom; King's College Hospital, London, United Kingdom; Department of Medical Statistics, London School of Hygiene and Tropical Medicine, London, United Kingdom; St. George's Hospital and Medical School, London, United Kingdom

Journal: Journal of perinatal medicine,
1998, 26 (2)
77-82

ISSN: 0300-5577 CODEN: JPMAO Availability: INIST-15905
; 354000075606010010
No. of Refs.: 23 ref.
Document Type: P (Serial) ; A (Analytic)
Country of Publication: Germany
Language: English

A complaint of decreased fetal movements is a common indication for the assessment of fetal well being. The aim of this study was to review the outcome of a group of women whose primary indication for referral was decreased fetal movements. Over a 20 month period, 435 patients were seen in the fetal assessment unit of an inner London teaching hospital, following a primary complaint of reduced fetal movements. Investigations included: the fetal abdominal circumference (AC), amniotic fluid volume (AFV), the umbilical artery pulsatility index (UAPI) derived from Doppler ultrasound waveforms and a computerised analysis of fetal heart rate (FHR) recordings or cardiotocograph (CTG). Outcome measures were: gestational age at delivery, Apgar score < 7 at 5 minutes, admission to the Special Care Baby Unit (SCBU), the need for delivery by an emergency cesarean section for fetal compromise (CSFC), and any perinatal deaths. A comparison of actual versus expected outcome for women with decreased fetal movement revealed the following relative risks, with the 95 % confidence intervals (CI) in brackets; low 5 minute Apgar score 0.03 vs. 0.05 expected (CI = 0.01,0.05), SCBU admission, 0.06 vs. 0.07 (0.04, 0.08), and preterm delivery, 0.08 vs. 0.11 (0.05, 0.10). Cesarean sections for fetal compromise, 0.07 vs. 0.053 (0.050-0.096). The addition of FHR monitoring to standard ultrasound assessment of well being did not appear to confer any added benefit. There were no fetal deaths. The outcome for pregnancies where the mother presents with decreased fetal movements in the third trimester is comparable with the outcome for the general population.

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20/7/7 (Item 3 from file: 144) [Links](#)

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13299172 PASCAL No.: 98-0022401

Noninvasive assessment of cardiac output in critically ill patients by analysis of the finger blood pressure waveform

HIRSCHL M M; BINDER M M; GWECHENBERGER M M; HERKNER H; BUR A;
KITTLER H; LAGGNER A N

Department of Emergency Medicine, University of Vienna, New General

Hospital, Vienna, Austria; Department of Dermatology, University of Vienna, New General Hospital, Vienna, Austria; Department of Cardiology, University of Vienna, New General Hospital, Vienna, Austria

Journal: Critical care medicine, 1997
, 25 (11) 1909-1914

ISSN: 0090-3493 CODEN: CCMDC7 Availability: INIST-17751
; 354000079384840330

No. of Refs.: 29 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United States

Language: English

Objective: To assess whether the measurement of cardiac output by computer-assisted analysis of the finger blood waveform can substitute for the thermodilution method in critically ill patients. Design: Prospective data collection. Setting: Emergency department in a 2000-bed inner city hospital. Patients: Forty-six critically ill patients requiring invasive monitoring for clinical management were prospectively studied. Interventions : Under local anesthesia a 7-Fr pulmonary artery catheter was inserted via the central subclavian or jugular vein. Cardiac output was determined by the use of a cardiac output computer and injections of 10 mL ice-cold glucose 5%. Noninvasive cardiac output was calculated from the finger blood pressure waveform by the use of the test software program. Measurements and Main Results: Three hundred twenty-three pairs of invasive and noninvasive hemodynamic measurements were collected in intervals of 30 mins from 46 patients (mean age 61.9 +/- 12.4 yrs; 35 male, 11 female). The average cardiac index during the study period was 2.83 L/min/m SUP 2 (range 0.97 to 5.56). The overall discrepancy between both measurements was 0.14 L/min/ m SUP 2 (95% confidence interval: 0.10-0.18, p < .001). Seventy-five (23.2%) measurements had an absolute discrepancy > +/- 0.50 L/min/m SUP 2 . Noninvasive and invasive comparisons of mean differential cardiac output were out of phase for 9.7% of all readings. Conclusion: Computer-assisted analysis of finger blood pressure waveform to assess cardiac output is not a substitute for the thermodilution method due to a high percentage (23.2%) of inaccurate readings; however, it may be a useful tool for the detection of relative hemodynamic trends in critically ill patients.

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20/7/8 (Item 4 from file: 144) [Links](#)

Fulltext available through: [Institution of Electrical Engineers](#) [USPTO Full Text Retrieval Options](#)
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12930505 PASCAL No.: 97-0202350

Applying incompletely connected feedforward neural network to ambulatory EC data compression

ZHAO Y; WANG B; ZHAO W; DONG L
Hangzhou Univ, Hangzhou, China
Journal: Electronics Letters, 1997
, 33 (3) 220-221

ISSN: 0013-5194 CODEN: ELLEAK Availability: INIST-12270
No. of Refs.: 3 Refs.
Document Type: P (Serial) ; A (Analytic)
Country of Publication: United Kingdom
Language: English

An incompletely connected feedforward neural network with three section corresponding to the compression of the three parts of ECG, i.e. the P wave part, the QRS complex part and the T wave part, is applied to ECG data compression. Without increasing the computational burden, improve compression results when there is much variation in the ECG waveforms.

20/7/9 (Item 5 from file: 144) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Pascal

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10267860 PASCAL No.: 92-0473772

A comprehensive **cardiovascular waveform** analysis program
for IBM SUP (R) -compatible personal **computers**

STEWART S F C; LIANG I Y S; FLACK J E; CLARK R E
Food & drug administration, cent. devices radiological health,
hydrodynamics acoustics branch, Rockville MD 20857, USA
Journal: Biomedical instrumentation & technology
, 1992, 26 (1
) 39-47

ISSN: 0899-8205 Availability: INIST-16429;
354000023355790040
No. of Refs.: 7 ref.
Document Type: P (Serial) ; A (Analytic)
Country of Publication: USA
Language: English

20/7/10 (Item 6 from file: 144) [Links](#)

Fulltext available through: [Institute of Electrical and Electronics Engineers](#) [USPTO Full Text Retrieval Options](#)

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08115090 PASCAL No.: 88-0115403

A prototype inverse solution in one-dimension to find the origin of excitation, strand radius, intracellular resistivity, or distance from the surface

DI PERSIO D A; BARR R C

Duke univ., dep. biomedical eng., Durham NC 27706, USA

Journal: IEEE transactions on biomedical engineering

, 1987, 34 (9

) 681-691

ISSN: 0018-9294 CODEN: IEBEAX Availability: CNRS-222E5

No. of Refs.: 15 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: USA

Language: ENGLISH

20/7/11 (Item 7 from file: 144) [Links](#)

Fulltext available through: [Institute of Electrical and Electronics Engineers](#) [USPTO Full Text Retrieval Options](#)
Pascal

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07827074 PASCAL No.: 87-0306797

An efficient algorithm for spectral analysis of heart rate variability

BERGER R D; AKSELROD S; GORDON D; COHEN R J

MIT, div. health sci. technology, Cambridge MA, USA

Journal: IEEE transactions on biomedical engineering

, 1986, 33 (9

) 900-904

ISSN: 0018-9294 Availability: CNRS-222E5

No. of Refs.: 9 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: USA

Language: ENGLISH

20/7/12 (Item 8 from file: 144) [Links](#)

Pascal

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07666620 PASCAL No.: 87-0146056

Advances in electrocardiology : proceedings of the 11th international congress on electrocardiology, Caen, July 1984

D'ALCHE Paul, Ed

Universite de Caen. Laboratoire de physiologie animale et bio-informatique, Caen, France

International congress on electrocardiology. 11 (Caen) 1984-07-17 1985 XX-509 p.

Publisher: Centre de publications de l'Universite de Caen, Caen

ISBN: 2-905461-05-5 Availability: CNRS-Y 23601

Document Type: C (Conference Proceedings) ; M (Monographic)

Country of Publication: France

Language: ENGLISH

Modeles mathematiques. Problemes inverses. Electrophysiologie cellulaire. Magnetocardiographie. Systemes de saisie des donnees. Methodes de traitement. Criteres de normalite. Cartographie des potentiels de surface du corps. Etudes par vectocardiographie. Pathologies du coeur. Monitoring et etudes pharmacologiques et chirurgicales

20/7/13 (Item 1 from file: 99) [Links](#)

Fulltext available through: [USPTO Full Text Retrieval Options](#)

Wilson Appl. Sci & Tech Abs

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1249147 H.W. Wilson Record Number: BAST95044900

Monitoring heartbeat

Koyuncu, Baki ;

Electronics World & Wireless World v. 101 (July '95) p. 605-7

Document Type: Feature Article **ISSN:** 0959-8332

Abstract: An inexpensive monitor that can be as efficient as any of the commercial heart rate monitor units is designed. The system comprises 2 probes and their differential amplifier, filters to clear the received probe signals, and a frequency-to-voltage converter to convert the pulse rate frequency to a dc voltage. An LCD unit and its interface IC are used to display the heart pulse rates. The PC interface allows heart rhythm waveforms to be stored and later analyzed. The periodicity and shape of the heart rate rhythms produced with this circuit are the same as those produced on an electrocardiograph.

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